

Battery Charger User's Guide

This user's guide contains information on your battery charger. We strongly recommend that you read this guide before using the battery charger even if you are already familiar with computers.

BATTERY CHARGER COMPONENTS

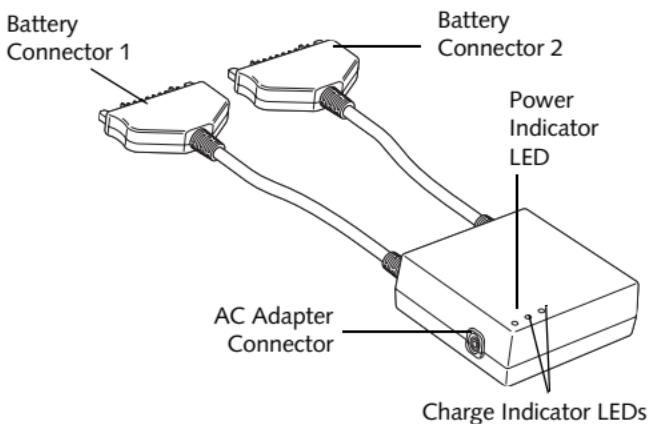


Figure 1. Battery Charger Components

Power Indicator LED

The Power Indicator LED is on when power is being supplied from an AC adapter.



- Depending upon the configuration of your battery charger, it may or may not come with an AC Adapter. If it comes with an AC Adapter, be sure to use **only** that adapter with the battery charger. If it does not come with an AC Adapter, use only the system AC adapter (UL Listed, Class 2 AC adapter with output rating of 16V dc, minimum 2.5A).
- This charger is designed only for charging Fujitsu Lithium ion battery packs that have the proper mating connector. If you have questions, check your system User's Guide or our accessories Web site to ensure that you are using the correct charger.

Charge Indicator LEDs

The Charge Indicators show the condition of the battery being charged. Table 1 on page 3 shows the LED color and its relation to the charging status.

Battery Connector 1

Battery connector 1 is used to connect a battery to the charger.

Battery Connector 2

Battery connector 2 is used to connect a battery to the charger.

AC Adapter Connector

The AC Adapter Connector is used to connect power to the battery charger via the AC adapter.

BATTERY CHARGER OPERATION

The Power Indicator LED is on when the battery charger is connected to a plugged-in AC adapter. The two Charge Indicator LEDs show the charging status of the battery connected to the charger or the condition of the charger itself, as shown in Table 1.

Charge Indicator	Charging Condition
Flashes orange	Standing by for charging
Steady orange	Charging
Steady green	Charging is complete
Steady red	Battery failure
Flashing red	Charger failure
No light	Battery not connected

Table 1. Indicator Status

- If the charger detects that something is wrong with the battery, the Charging Indicator LED will turn a steady red. If this happens, **immediately** remove the battery from the charger.
- If the battery charger detects a failure in its charging circuit, the Charging Indicator LED will blink red. If this happens, **immediately** disconnect the AC adapter and remove the battery from the charger.



The following items can affect the battery charger's performance:

- After a battery has been charging for a period (as noted below), the battery charger will stop charging (regardless of the charge level) and the Charge Indicator LED will turn green. This is a safety feature to prevent damage to the battery.

Battery Capacity	Charging Time
Less than 2500 mAh	5 hours
2500 mAh to 4100 mAh	8 hours
Over 4100 mAh	12 hours

- When a battery has been left unused for a long time, it will take longer to charge.
- When the ambient temperature is low, it will take longer to charge a battery.
- If the temperature of a battery connected to the charger is extremely high or low, the battery charger will standby for charging until the battery returns to normal temperature. This is a safety feature designed to prevent damage to the battery.

USING THE BATTERY CHARGER

To charge a battery, follow these steps:

1. Before connecting, see the Information box on page 2 regarding AC adapter usage.
2. Connect the battery charger to the AC adapter.
3. Plug the AC adapter into an AC outlet. (*Figure 2*).
4. The Power Indicator LED will light up and the Charging Indicator LED(s) will flash orange once.
5. When the Charging Indicator LED(s) turns off, align the plastic key pin of the battery connector with the corresponding guide in the battery socket. Be very careful to align the battery and charger properly. (*Figure 3*)



- The charger can have two batteries connected at the same time, but it charges only one at a time. The battery that was connected first is charged first. The second battery is held in a wait status until the first battery is completely charged.
- Charging time varies depending on the environmental conditions (such as temperature) or deterioration of the battery(s).

6. The Charging Indicator LED(s) will turn orange when the battery(s) is being charged.
7. The Charging Indicator LED(s) will turn green when charging is completed.

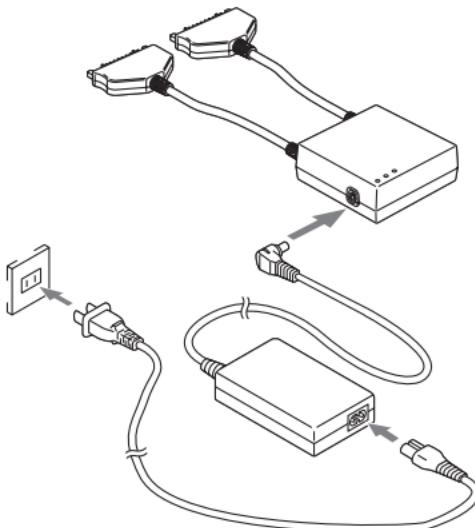
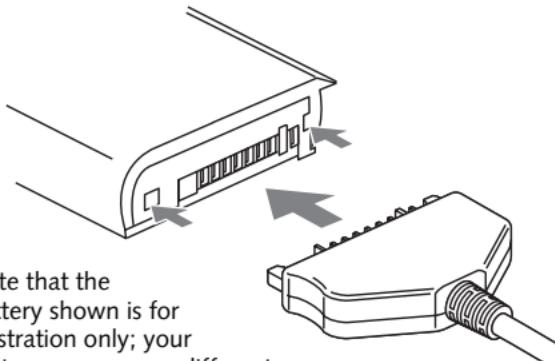


Figure 2. Connecting the AC Adapter



Note that the battery shown is for illustration only; your battery may appear different.

Figure 3. Connecting the battery

CARE AND MAINTENANCE

- Never connect the battery charger to a physically defective battery or use a defective charger.
- When the battery charger is not being used for charging, be sure to disconnect the AC adapter and remove any battery connected to the charger to avoid the chance of fire or equipment failure.
- When disconnecting the AC adapter, do not pull on the cable to remove the adapter. Always remove by grasping the plug body.
- If the battery charger smokes, smells strange, heats abnormally, or makes noise, **immediately** disconnect the AC adapter, and contact your Fujitsu reseller (see “Fujitsu Computer Systems Contact Information” below). It is normal for the charger to become slightly warm during charging.
- Do not use the battery charger in humid, dusty, or poorly ventilated places.
- Do not use the battery charger if any foreign substance, such as water, dirt, etc. has gotten inside.

TECHNICAL SUPPORT

Fujitsu Computer Systems Contact Information

If you have problems you are unable to resolve, consult your support representative, toll free at:

- 1-800-8FUJITSU (1-800-838-5487)
- E-mail: 8fujitsu@us.fujitsu.com
- Web Site: <http://www.computers.us.fujitsu.com/support>

SPECIFICATIONS

Specification	Details
Power Requirements	16V/40W This unit is to be powered by the power supply, UL Listed and class 2 adapter, rated 16 Vdc, 2.5A
Operating Temperature	5°C – 35°C
Operating Humidity	10% to 90%
Maximum Outer Dimensions	3.9" x 3.54" x 1.2" (100 mm x 90 mm x 30 mm)
Weight	0.5 lbs. (230g)



DECLARATION OF CONFORMITY

according to FCC Part 15

Responsible Party Name: Fujitsu Computer Systems Corporation

Address: 1250 E. Arques Avenue (M/S 122),
Sunnyvale, California 94085

Telephone: (408) 746-6000

Declares that product: Battery Charger Model FPCBC22
Complies with Part 15 of the FCC Rules.

This device complies with Part 15 of the FCC rules. Operations are subject to the following two conditions:(1) This device must not be allowed to cause harmful interference, (2) This device must accept any interference received, including interference that may cause undesired operation.

Declaration of Conformity

Model Name: Battery Charger FPCBC22

Conformance to Directive(s)/Product Standard:
89/336/EEC and 73/23/EEC

FCC Notices

Notice to Users of Radios and Television

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet that is on a different circuit than the receiver.
- Consult the dealer or an experienced radio/TV technician for help.

Shielded interconnect cables must be employed with this equipment to ensure compliance with the pertinent RF emission limits governing this device.

DOC (Industry Canada) Notices

Notice to Users of Radios and Television

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

CET appareil numérique de la class B respecte toutes les exigence du Réglement sur le matériel brouilleur du Canada.

Notice to All Users

The Battery Charger can only be operated at a maximum ambient temperature of 35° C (95° F).



Warning



Handling the cord on this product will expose you to lead, a chemical known to the State of California to cause birth defects or other reproductive harm.

Wash hands after handling.



Fujitsu Computer Systems Corporation

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Sunnyvale, California 94085

For more information, call **1-800-FUJITSU**
or visit our Web site at:
www.shopfujitsu.com

For technical support call: **1-800-8FUJITSU (1-800-838-5487)** or e-mail us at: **8fujitsu@us.fujitsu.com**

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Product description data reflects Fujitsu design objectives and is provided for comparative purposes; actual results may vary based on a variety of factors. Specifications are subject to change without notice.

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